

## butanoyl-CoA dehydrogenase (NAD+, ferredoxin)

Cat. No. EXWM-1281

Lot. No. (See product label)

## Introduction

**Description** This flavin containg enzyme, isolated from the bacteria Acidaminococcus

fermentans and butanoate-producing Clostridia species, couples the exergonic reduction of (E)-but-2-enoyl-CoA to butanoyl-CoA with NADH to the endergonic reduction of ferredoxin by NADH, using electron bifurcation to overcome the steep

energy barrier in ferredoxin reduction.

**Synonyms** bifurcating butyryl-CoA dehydrogenase; butyryl-CoA dehydrogenase/Etf complex;

Etf-Bcd complex; bifurcating butanoyl-CoA dehydrogenase; butanoyl-CoA

dehydrogenase/Etf complex

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.3.1.109

**Reaction** butanoyl-CoA + 2 NAD+ + 2 reduced ferredoxin [iron-sulfur] cluster = (E)-but-2-

enoyl-CoA + 2 NADH + 2 oxidized ferredoxin [iron-sulfur] cluster

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can

custom produce according to your specifications.

## Storage and Shipping Information

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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